

**Cc:** Glenn Springs, Holdings, Inc. (juan\_somoano@oxy.com)[juan\_somoano@oxy.com]  
**To:** Clifford Firstenberg[cfirstenberg@tierrasolutionsinc.com]  
**From:** Naranjo, Eugenia  
**Sent:** Mon 2/27/2017 12:20:21 PM  
**Subject:** Re: Newark Bay Study Area Feasibility Study Work Plan

Sorry about that, I meant Thursday 3/9 from 9-10. Thanks.

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**From:** Clifford Firstenberg <cfirstenberg@tierrasolutionsinc.com>  
**Sent:** Monday, February 27, 2017 7:18 AM  
**To:** Naranjo, Eugenia  
**Cc:** Glenn Springs, Holdings, Inc. (juan\_somoano@oxy.com)  
**Subject:** RE: Newark Bay Study Area Feasibility Study Work Plan

Eugenia – sorry for the slow response; I was out of town for a long weekend and entertaining friends – not working ☺. Regarding the dates, did you mean Tue 3/7 or Thu 3/9?

Once I hear back from you, I will poll my team and get back to you with a date/time (I think we should plan for 2 hrs but be flexible (either way). Does that make sense to you? I'll also provide a short agenda later this week.

Thanks  
Cliff

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Clifford E. Firstenberg  
  
Principal and Environmental Sciences Manager  
  
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*Thank You.*

**From:** Naranjo, Eugenia [mailto:Naranjo.Eugenia@epa.gov]  
**Sent:** Friday, February 24, 2017 9:49 AM  
**To:** Clifford Firstenberg <cfirstenberg@tierrasolutionsinc.com>  
**Cc:** Glenn Springs, Holdings, Inc. (juan\_somoano@oxy.com) <juan\_somoano@oxy.com>  
**Subject:** Re: Newark Bay Study Area Feasibility Study Work Plan

Thank you Cliff. Note that the language from RAGS Part III - Part A, requires a tiered approach and that a deterministic RA should be performed prior to considering a PRA:

*"A tiered approach to PRA is advocated, which begins with a point estimate risk assessment. Important considerations include the time required to perform the PRA, the additional resources involved in developing the PRA, the quality and extent of data on exposure that will be used in the assessment, and the value added by conducting the PRA.*

*However, PRA may not be appropriate for every site. Disadvantages of PRA are that it*

*generally requires more time, resources, and expertise on the part of the assessor, reviewer, and risk manager than a point estimate approach".*

page iii. #5 indicates:

*"(3) Perform a point estimate assessment prior to considering a PRA."*

However, we will be happy to discuss the comments on the FSWP regarding the PRA and listen to what your team would like to propose. See below potential dates and times that work for our team. Let me know which dates/times work. Thank you,

eugenia

MON 3/6 - anytime except 1-2

TUE 3/9 - 9-10

MON 3/13 - PM

TUE 3/14 - anytime

THU 3/16- between 10-12

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**From:** Clifford Firstenberg <[cfirstenberg@tierrasolutionsinc.com](mailto:cfirstenberg@tierrasolutionsinc.com)>  
**Sent:** Friday, February 24, 2017 7:58 AM  
**To:** Naranjo, Eugenia  
**Cc:** Glenn Springs, Holdings, Inc. ([juan\\_somoano@oxy.com](mailto:juan_somoano@oxy.com))  
**Subject:** RE: Newark Bay Study Area Feasibility Study Work Plan

Eugenia

Based on our initial review of EPA's comments we would like to request a "conference" consistent with paragraph 56 of the AOC (excerpted below, for your convenience). Our primary reason for requesting the conference is the comments pertaining to the probabilistic risk

assessment. However, there may be other comments that warrant discussion, if these cannot be clarified/resolved prior to any conference that we may convene.

Please advise next steps (e.g., conference call or in-person meeting) and a number of dates/times so I can make arrangements with my team.

Thanks

Cliff

#### EXCERPT

56. a. EPA remains the final arbiter in any dispute regarding the sufficiency or acceptability of any document submitted pursuant to this Order. However, nothing in this Order shall affect any rights that Respondent may have to judicial review, if any, of EPA's actions or determinations under this Order, and, except as provided in Paragraph 117, EPA and Respondent expressly reserve all rights and defenses that they may have pursuant to applicable law.

b. If EPA disapproves or directs a modification of a submittal, Respondent may request a conference with EPA to discuss such disapproval or modification. This conference shall be held within ten (10) days of Respondent's receipt of the comments, unless otherwise agreed by EPA. Respondent shall amend the plan, report or other item as required by EPA's comments or as otherwise agreed upon by EPA and resubmit it for approval, within thirty (30) days of the receipt of EPA's comments or thirty (30) days of the date of the conference with EPA, whichever is later, or such longer time period as specified by EPA in writing. Notwithstanding the notice of disapproval, Respondent shall proceed, at the direction of EPA, to take any action required by any non-deficient portion of the submittal.

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Clifford E. Firstenberg

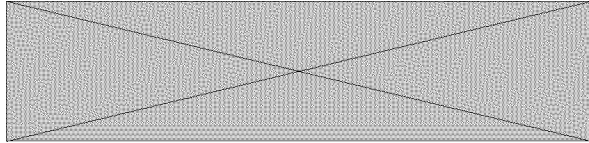
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*Thank You.*

**From:** Naranjo, Eugenia [<mailto:Naranjo.Eugenia@epa.gov>]  
**Sent:** Thursday, February 16, 2017 10:10 AM  
**To:** Clifford Firstenberg <[cfirstenberg@tierrasolutionsinc.com](mailto:cfirstenberg@tierrasolutionsinc.com)>  
**Cc:** Glenn Springs, Holdings, Inc. ([juan\\_somoano@oxy.com](mailto:juan_somoano@oxy.com)) <[juan\\_somoano@oxy.com](mailto:juan_somoano@oxy.com)>  
**Subject:** RE: Newark Bay Study Area Feasibility Study Work Plan

Cliff,

Find attached EPA's comments on the NBSA Draft Feasibility Work Plan. Let us know if you have any questions or need clarification on our comments. Thanks,

Eugenia

Eugenia Naranjo

United States Environmental Protection Agency

290 Broadway, New York, NY 10007

212-637-3467

**From:** Clifford Firstenberg [<mailto:cfirstenberg@tierrasolutionsinc.com>]

**Sent:** Tuesday, December 20, 2016 11:28 AM

**To:** Naranjo, Eugenia <[Naranjo.Eugenia@epa.gov](mailto:Naranjo.Eugenia@epa.gov)>

**Cc:** Enrique Castro <[ecastro@tierrasolutionsinc.com](mailto:ecastro@tierrasolutionsinc.com)>; Glenn Springs, Holdings, Inc. ([juan\\_somoano@oxy.com](mailto:juan_somoano@oxy.com)) <[juan\\_somoano@oxy.com](mailto:juan_somoano@oxy.com)>

**Subject:** Newark Bay Study Area Feasibility Study Work Plan

Eugenia

Please find attached to this email the draft Feasibility Study Work Plan for the Newark Bay Study Area. We are providing both a PDF with figures and the associated text in a Word document to facilitate commenting.

Have a great holiday and, unless something comes up sooner, I look forward to speaking with you in the new year.

Cliff

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Clifford E. Firstenberg

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*Thank You.*